SEA **Springfield Euro Auto** EXAMPLE SHOP
service@springfield-euro-auto.example

2013 Land Rover LR4 at 102,000 mi

SALAG2D47DA123456

MODEL / CHASSIS	ENGINE	MILEAGE	DRIVETRAIN
LR4 · L319 LR4 HSE 5.0 V8	Jaguar Land Rover AJ133 5.0 V8 and AJ126 3.0 supercharged V6	102,000 mi	4WD
BUILD MONTH	**REPORT DATE**	**MODE**	**PREPARED FOR**
Not entered (door jamb)	October 27, 2026	Shop	Sample Owner

VIN check: check digit valid; model-year code 'D' = 2013, matches the year entered. The VIN doesn't record the build month. Sample report: synthetic VIN.

1 · SUMMARY

What this car needs, in order

Each item compares this car's mileage with when owners and shops report the part failing. It is not an inspection: our technician decides what the car actually needs.

1	1	2
inspection recommended now	to plan in the next 30,000 miles	to watch or check at each service

Safety recalls NHTSA lists for this model year (1 of 3)

- **21V-635** · Fuel system · fuel pump outlet flange: A fuel leak in the presence of an ignition source increases the risk of a fire.

A model-year list, not a VIN check. The full report lists the others. Repairs are free at a Land Rover retailer if open. Check this VIN at nhtsa.gov/recalls.

Step 0 · Free: run the VIN at nhtsa.gov/recalls and ask a Land Rover retailer for a campaign printout, including 21V-635. Read the build month (MM/YY) on the driver's door-jamb label.

Recommended now at the next service **$165**

Inspection: check now, while it's cheaper to fix

$165

inspection EXAMPLE

Plastic coolant pipes and thermostat housing seams: Past the range (24,000–60,000 mi, the middle half of 10 owner reports) · if it fails: $3,600–$5,300

Known weak point for this engine, not a finding on your car. The inspection shows whether yours has early signs.

Next 12 months up to about 114,000 mi — **$2,900**

Timing chain tensioners and guides — **$2,900**

Any mileage (2010–2014 5.0 V8 in Land Rover bulletins; partial extended warranty on 2012–2014 LR4 and Range Rover Sport has ended)

our price EXAMPLE

Within the next 30,000 miles up to 132,000 mi

Nothing else enters its reported range in this window.

Watch inspect at each service, fix on condition, or optional

Water pump leak — **$1,350**

Any mileage (2010–2015 LR4, Range Rover and Range Rover Sport bulletins; later models too) · Inspect at each service; fix at the first sign

our price EXAMPLE

Supercharger isolator wear (rattle) — **$1,150**

Any mileage (5.0 supercharged V8) · Inspect at each service; fix at the first sign

our price EXAMPLE

Recommended now

$165

Springfield Euro Auto prices (example)

Planned through 132,000 mi

$3,065

Now + next 12 months + next 30,000 miles. Excludes “watch” and optional items.

Prices are Springfield Euro Auto's estimates for typical parts and labor. They don't include tax, shop supplies or disposal fees, and may change after inspection or if part prices change. Not a written repair estimate: Springfield Euro Auto confirms the price and gets your OK before any work.

Bundled jobs are priced together because the labor overlaps. Routine service (oil, brakes, tires) isn't included; factory fluid and spark plug intervals are listed below.

FACTORY MAINTENANCE

The maker's maintenance schedule isn't on this report

This report doesn't include the maker's scheduled maintenance for this car yet, so brake fluid, spark plugs, coolant and transmission fluid aren't listed even when they're due. Check the service records and the maker's schedule for this car.

WHERE 102K SITS FOR EACH WEAK POINT

#	WEAK POINT	REPORTED RANGE	THIS CAR
1	Timing chain tensioners and guides	2010–2014 5.0 V8 in Land Rover bulletins; partial extended warranty on 2012–2014 LR4 and Range Rover Sport has ended OFFICIAL	Any mileage
2	Water pump leak	2010–2015 LR4, Range Rover and Range Rover Sport bulletins; later models too OFFICIAL	Any mileage
3	Plastic coolant pipes and thermostat housing seams	24,000–60,000 mi (middle half of 10 owner complaints that state a mileage) COMPUTED FROM NHTSA DATA	Past the range
4	Supercharger isolator wear (rattle)	5.0 supercharged V8 OFFICIAL	Any mileage

Colors compare mileage with reported failures, not the car's condition. Red: past the range. Amber: inside or approaching. Green: below, or not listed for a recall.

2 · RECALLS AND BULLETINS

Recalls to check for this 2013 Land Rover LR4

Safety recall repairs are free at Land Rover retailers. Nothing here can tell whether a recall is open or already done on this VIN; only the official VIN lookup or a dealer can.

Official VIN check (2 minutes)

1. Go to nhtsa.gov/recalls and enter SALAG2D47DA123456.
2. Note every recall shown as “Recall incomplete” and keep a screenshot.
3. Ask a Land Rover retailer for a campaign printout; it also lists completed campaigns.

5.0 V8 AJ133 / 3.0 V6 SC RECALLS WE TRACK

21V-635 · Fuel tank outlet flange can crack (2010–2013 Range Rover Sport, 2010–2016 LR4)

NHTSA lists this model and year: check by VIN

The fuel outlet flange on the fuel tank may crack and leak fuel. Free repair. OFFICIAL [14]

☐ VIN checked ☐ Open: booked with dealer ☐ Completed (printout kept)

Other 5.0 V8 AJ133 / 3.0 V6 SC recalls we track, not listed by NHTSA for this model and year: 19V-040 (crankshaft pulley bolt can break (2019 Range Rover, Range Rover Sport, Velar, Discovery V6/V8)), 19V-039 (crankshaft pulley bolt (2019 Jaguar F-Pace, F-Type, XJ V6/V8)), 10V-332 (fuel pump may not switch on (2010 XF, 2010–2011 XK 5.0)).

EVERY RECALL NHTSA LISTS FOR THE 2013 LAND ROVER LR4 (3)

RECALL	COMPONENT	WHAT CAN HAPPEN (NHTSA, SHORTENED)
21V-635 5.0 V8 AJ133 / 3.0 V6 SC tracked	Fuel system · fuel pump outlet flange	A fuel leak in the presence of an ignition source increases the risk of a fire. Details
15V-386	Panoramic roof bonding	The insufficient bond may result in the panoramic roof assembly detaching from the vehicle, increasing the risk of a crash. Details
14V-618	Tires · pressure monitoring sensors	If the TPMS light illuminates because the sensors cannot be located, it could mask an actual low tire pressure condition, possibly resulting in tire failure, increasing the risk of a crash. Details

Source: NHTSA recalls API, fetched 2026-10-27 and combined across NHTSA model names: LR4. Safety categories (air bags, fire, brakes, stalling, roll-away and loss of control) are listed first; listings whose NHTSA text names another engine, or an aftermarket part, go last. OFFICIAL

SERVICE ACTIONS, BULLETINS AND WARRANTY PROGRAMS

CAMPAIGN	WHAT IT SAYS	THIS CAR
Timing chain / tensioner partial extended warranty (NAS22.02.002)	Partial coverage (60% down to 40%; 30% to 20% for engine damage) up to 8 years / 100,000 miles for 2012–2014 LR4 and Range Rover Sport. Ended. OFFICIAL [2]	Expired

4 · THE 4 WEAK POINTS

Each weak point, one card each

Every figure carries its source. Retailer part numbers are shown only when the retailer lists them for this chassis (L319).

1 Timing chain tensioners and guides

Any mileage

Severity: Critical: rare, but can badly damage the engine · 29 mentions in counted NHTSA complaints

COMPUTED FROM NHTSA DATA

Reports cover a wide mileage span (2010–2014 5.0 V8 in Land Rover bulletins; partial extended warranty on 2012–2014 LR4 and Range Rover Sport has ended), so mileage doesn't say much here. Range: 2010–2014 5.0 V8 in Land Rover bulletins; partial extended warranty on 2012–2014 LR4 and Range Rover Sport has ended OFFICIAL [2][3]

WHAT FAILS OFFICIAL [2][3][4]

Wear on the timing chain tensioner lever reduces chain tension and makes a rattle or click at the front of the engine. Land Rover replaces both tensioners and levers. It later offered a partial extended warranty on 2012–2014 LR4 and Range Rover Sport chains and tensioners.

SYMPTOMS

- Rattle or click at idle
- Cold-start rattle
- Cam/crank correlation codes

IF IT'S LEFT TOO LONG

A chain that jumps can damage the engine; Land Rover's program also covered engine damage from chain failure.

IS IT WORTH DOING EARLY? OUR ESTIMATE

Replace tensioners, levers and guides at the first rattle or correlation code.

ESTIMATED REPAIR COST

Labor only, 7.8–8.5 h Land Rover warranty time plus tensioners and levers	**Our price is in the plan above** ask us for a written quote
Full chain job at a dealer (owner quotes)	**$8,000–$9,600** FORUM/BLOG [5] reported range for the bill after a failure

Where the numbers come from: Estimate: Land Rover warranty labor time of 7.8–8.5 h (bulletin [3]) × $100–$160/h independent-shop labor rate [6]. Parts are extra unless stated; check the VIN for open warranty coverage first. A full chain and guide job costs more; an owner reported about $4,400 at an independent shop [5].

PARTS FOR L319

- Ask your parts supplier for the OE part number for this VIN.

QUESTIONS TO ASK US

- Timing chain, tensioners or guides replaced?
- Any rattle at idle?

2 Water pump leak

Any mileage

Severity: High: overheating, stalls, limp mode or a big bill · 19 mentions in counted NHTSA complaints

COMPUTED FROM NHTSA DATA

Reports cover a wide mileage span (2010–2015 LR4, Range Rover and Range Rover Sport bulletins; later models too), so mileage doesn't say much here. Range: 2010–2015 LR4, Range Rover and Range Rover Sport bulletins; later models too

OFFICIAL [7][8]

WHAT FAILS OFFICIAL [7][8]

The water pump can leak or its bearing can wear, and the coolant level falls over time. Land Rover changed the AJ133 pump design to improve it.

SYMPTOMS

- Coolant level falling
- Low coolant message
- Whine or noise from the pump

IF IT'S LEFT TOO LONG

Coolant loss can overheat the engine.

IS IT WORTH DOING EARLY? OUR ESTIMATE

Replace the pump at the first leak; do the thermostat and plastic pipes at the same time.

ESTIMATED REPAIR COST

Water pump replacement, pump only (retailer guide)	**Our price is in the plan above** ask us for a written quote
Owner-reported repair bills in NHTSA complaints (n=8)	**$3,060–$8,380** COMPUTED FROM NHTSA DATA [1] reported range for the bill after a failure

Where the numbers come from: Computed from 8 NHTSA owner complaints that quote a repair bill for this problem (middle half of the bills; median $3,850). Examples: ODI 11258959, 10993831, 11630092, 11193787. Owner-reported, often dealer prices; not shop quotes.

PARTS FOR L319

- Ask your parts supplier for the OE part number for this VIN.

QUESTIONS TO ASK US

- Water pump replaced?
- Coolant top-ups?

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3 Plastic coolant pipes and thermostat housing seams

Past the range

Severity: High: overheating, stalls, limp mode or a big bill · 77 mentions in counted NHTSA complaints COMPUTED FROM NHTSA DATA

At 102,000 mi this car is past the reported range (24,000–60,000 mi (middle half of 10 owner complaints that state a mileage)). If the original parts are still fitted, have them checked and plan for them. Range: 24,000–60,000 mi (middle half of 10 owner complaints that state a mileage) COMPUTED FROM NHTSA DATA [1]



Applies to: LR4, Range Rover and Range Rover Sport with the 5.0 V8

WHAT FAILS OFFICIAL [10][11]

Plastic coolant pipes and the thermostat housing can leak along their welded seams. Land Rover traced one pipe leak to a supplier welding problem.

SYMPTOMS

- Low coolant message
- Coolant smell
- Coolant at the back of the engine

ESTIMATED REPAIR COST

Crossover pipe job at an independent shop (owner quotes)	**Our price is in the plan above** ask us for a written quote
Dealer quotes when the	**$3,600–$5,300** FORUM/BLOG [12] reported range for the bill after a failure

IF IT'S LEFT TOO LONG

A seam can split and dump coolant.

IS IT WORTH DOING EARLY? OUR ESTIMATE

Replace leaking pipes with updated parts, ideally with the water pump.

supercharger must come off

PARTS FOR L319

- Ask your parts supplier for the OE part number for this VIN.

QUESTIONS TO ASK US

- Coolant pipes or crossover replaced?

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4 Supercharger isolator wear (rattle)

Any mileage

Severity: Medium: leaks and wear · 31 mentions in counted NHTSA complaints

COMPUTED FROM NHTSA DATA

Reports cover a wide mileage span (5.0 supercharged V8), so mileage doesn't say much here. Range: 5.0 supercharged V8 OFFICIAL [13]

WHAT FAILS OFFICIAL [13]

Wear in the supercharger torsional isolator and its spring support shaft creates backlash in the supercharger drive and a clatter or rattle. It can sound like a timing chain rattle.

SYMPTOMS

- Clatter or rattle at idle
- Knock from the front of the engine

IF IT'S LEFT TOO LONG

Mostly noise, but it should be told apart from a chain rattle.

IS IT WORTH DOING EARLY? OUR ESTIMATE

Diagnose before replacing chains; renew the isolator if worn.

ESTIMATED REPAIR COST

Labor only, 4–4.6 h Land Rover warranty time plus the isolator kit	**Our price is in the plan above** ask us for a written quote
Labor only, 4–4.6 h Land Rover warranty time plus the isolator kit	**$400–$740** OUR ESTIMATE [13][6] labor only, parts extra

Where the numbers come from: Estimate: Land Rover warranty labor time of 4–4.6 h (bulletin [13]) × $100–$160/h independent-shop labor rate [6]. Parts are extra unless stated; check the VIN for open warranty coverage first.

PARTS FOR L319

- Ask your parts supplier for the OE part number for this VIN.

QUESTIONS TO ASK US

- Supercharger isolator replaced?

5 · ALSO REPORTED, NOT RANKED

Other themes in 5.0 V8 AJ133 / 3.0 V6 SC owner complaints

Every NHTSA complaint theme with 10 or more counted reports is either a weak point above or explained here.

THEME	COMPLAINTS	WHY IT ISN'T A WEAK POINT
Stalling / loss of power	130	Mixed causes; includes recalls 19V-039 / 19V-040 (2019 crankshaft pulley bolt) and fuel recalls.

How this report is built

Inputs. VIN, model year, model, mileage and build month (if entered). Model and engine are checked with NHTSA's vPIC decoder.

Mileage positions. Below: more than 10,000 miles before the reported range. Approaching: within 10,000. Inside: in the range, or past the start of an open-ended range. Past: beyond the top of the range. These bands are our rules, not an industry standard.

The plan. Critical items inside or past their range go first; high-severity items follow, and jobs that share labor are bundled. At most three jobs land in “Recommended now”. Leaks that are cheap to watch are fixed on condition; inspections are asked for at each service.

Costs. Published independent-shop ranges from shop quotes, retailer prices and owner reports. Shop prices come from the issuing shop. The worst-case cost of every item failing is not shown: it isn't an expected cost.

Labels. `OFFICIAL` NHTSA/JLR documents · `SHOP/RETAILER` parts prices and shop articles · `FORUM/BLOG` owner forums and blogs · `COMPUTED FROM NHTSA DATA` our analysis of NHTSA data · `OUR ESTIMATE` ours.

NHTSA complaint data. Pulled Oct 27, 2026 from NHTSA's complaints API for Range Rover, Range Rover Sport and Discovery complaints leaving out diesel and hybrid; all LR4 and XK; F-Type, XF and XJ leaving out the four-cylinder and diesel; F-Pace only when naming the V6 or V8; 2020–2022 Range Rover and Range Rover Sport, 2018–2020 Velar and 2016–2018 XF complaints only when they name the V6/V8 or supercharger: 1,484 complaints. Some of these nameplates were sold with other engines too. For some we kept only complaints whose text names this engine (which under-counts); for others we left out complaints that name another engine or a hybrid (so a few about other engines can remain). Themes are keyword matches on the complaint text. `COMPUTED FROM NHTSA DATA`

THEME	COMPLAINTS	IN THIS REPORT
Stalling / loss of power	130	Also reported
Coolant leak / pipes	77	Item 3
Supercharger	31	Item 4
Timing chain	29	Item 1
Water pump	19	Item 2

Limits: complaints are self-reported and not adjusted for cars sold; keyword matching over- and under-counts; owners rarely file safety complaints about oil seeps, so leaks look rarer than they are.

SOURCES

1. NHTSA owner complaints for 5.0 V8 and 3.0 supercharged V6 gasoline: 2010–2019 Range Rover and Range Rover Sport, 2010–2016 LR4, 2017–2020 Discovery, Jaguar F-Type, XF (2010–2015), XJ, XK and F-Pace (V6/V8), pulled Oct 27, 2026 (ODI numbers in the cost notes) `OFFICIAL`
https://www.nhtsa.gov/report-a-safety-problem#complaints

2. Land Rover NAS22.02.002: Engine timing chain / tensioner partial extended warranty, 2012–2014 LR4 and Range Rover Sport (USA) (2022-03-04), filed with NHTSA `OFFICIAL`
https://static.nhtsa.gov/odi/tsbs/2022/MC-10209987-0001.pdf

3. Land Rover LTB00474NAS3: Rattle / click from the front of the engine: worn timing chain tensioner lever, 2010–2012 LR4, Range Rover, Range Rover Sport (2015-05-19), filed with NHTSA `OFFICIAL`
https://static.nhtsa.gov/odi/tsbs/2015/MC-10104461-9340.pdf

4. Land Rover SSM71893: Repeat timing chain noise after a previous repair (2015-01-05), filed with NHTSA `OFFICIAL`
https://static.nhtsa.gov/odi/tsbs/2015/SB-10103562-9340.pdf

5. LandRoverWorld forum: LR4 5.0 timing chain job, via search extract Oct 27, 2026 `FORUM/BLOG`
https://landroverworld.org/goto/post?id=185350

6. Tekmetric: average auto repair labor rates by state, 2026 `SHOP/RETAILER`
https://tours.tekmetric.com/answers/average-auto-repair-labor-rates-by-state-2026

7. Land Rover LTB00352NAS6: Coolant pump diagnostics: coolant level falls, pump leak or bearing wear (2010–2015 LR4, Range Rover, Range Rover Sport) (2015-05-19), filed with NHTSA `OFFICIAL`
https://static.nhtsa.gov/odi/tsbs/2015/MC-10104441-9340.pdf

8. Land Rover SSM64657: Coolant leak from the 5.0L V8 (AJ133) water pump; pump changes made (2015-01-05), filed with NHTSA OFFICIAL
https://static.nhtsa.gov/odi/tsbs/2015/MC-10096542-1020.pdf

9. Go-Parts: 2017–2023 Range Rover Sport engine water pump (pipes extra), via search extract Oct 27, 2026 SHOP/RETAILER
https://www.go-parts.com/garage/ps-2017-2023-land-rover-range-rover-sport-engine-water-pump

10. Land Rover SSM72008: V8 5.0L (AJ133) coolant pipe leak from the seam (LR018275) (2015-01-05), filed with NHTSA OFFICIAL
https://static.nhtsa.gov/odi/tsbs/2015/SB-10105341-9340.pdf

11. Land Rover SSM74025: Coolant leak from the thermostat housing seam (2018-10-22), filed with NHTSA OFFICIAL
https://static.nhtsa.gov/odi/tsbs/2018/MC-10147483-9999.pdf

12. LandRoverWorld forum: coolant crossover pipe and water pump quotes, via search extract Oct 27, 2026 FORUM/BLOG
https://www.landroverworld.org/goto/post?id=246975

13. Land Rover LTB00482NAS6: Supercharger clatter / knock / rattle from torsional isolator wear, 5.0L SC (2016-07-15), filed with NHTSA OFFICIAL
https://static.nhtsa.gov/odi/tsbs/2016/SB-10106301-9340.pdf

14. NHTSA recall records: 19V-039 / 19V-040 (2019 V6 and V8 crankshaft pulley bolt), 21V-635 (2010–2013 Range Rover Sport and 2010–2016 LR4 fuel flange) and 10V-332 (2010 XF / 2010–2011 XK 5.0 fuel pump relay), checked Oct 27, 2026 OFFICIAL
https://www.nhtsa.gov/recalls?nhtsaId=19V040000

This report contains no affiliate links; retailer prices are quoted as price sources only. Found an error? Email hello@repairahead.com.

PLEASE READ

Important

Based on public records and published repair costs. Not a diagnosis or a guarantee. Your technician's inspection decides what your car needs. Confirm recalls with a dealer using your VIN.

Informational only. This report is not a mechanical inspection, a diagnosis, or professional, legal or financial advice. It was issued by Springfield Euro Auto using RepairAhead data; the inspection findings and prices are the shop's.

Reported ranges and estimates, not predictions

Failure mileages are reported ranges compiled from public owner complaints, manufacturer bulletins, recalls and repair-shop reports. Costs are estimates. Parts can fail earlier, later or not at all, and other problems can occur. Statistics from owner complaints describe past reports to NHTSA; NHTSA has not reviewed or endorsed this analysis.

Safety issues go to a dealer

If you notice overheating, a burning or fuel smell, smoke, a brake-assist problem, stalling or loss of power, pull over when it's safe and contact a Land Rover retailer or qualified shop. Safety recall repairs are free at Land Rover retailers. Confirm recalls for this VIN at nhtsa.gov/recalls.

No warranty

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